

## Academic Resume



### Ahmed Alzahrani

#### Professor, Computer Science Department

Professor with the Computer Science Department, and the Vice Dean of Deanship of Graduate Studies for academic affairs

#### Contact Information.

Add. Department of Computer Science, Faculty of Computing and Information Technology, King Abdulaziz University, Jeddah 21589, Saudi Arabia, [asalzahrani@kau.edu.sa](mailto:asalzahrani@kau.edu.sa).

#### Highest Degree.

2009, Ph.D. in Computer Science, Computer Networks, University of Bradford, UK.

#### Academic and Professional Experiences.

1. **2021 - Present**  
Professor, Computer Science Department. FCIT, K.A.U., , .
2. **2015 - 2021**  
Associate Professor, Computer Science Department. FCIT, K.A.U..
3. **2014 - Present**  
Vice Dean for Academic Affairs s,, , Deanship of Graduate Studies, K.A.U..
4. **2011 - 2013**  
Chairman of CS Department, FCIT, K.A.U..
5. **2010 - 2015**  
Assistant Professor, Computer Science Department. FCIT, K.A.U..
6. **2010 - 2013**  
Supervisor of Academic Affairs, FCIT, K.A.U..
7. **2001 - 2003**  
TA, FCIT, K.A.U..
8. **2000 - 2000**  
Programmer, Dhahran, Saudi Arabia , Saudi Aramco.

#### Research Interests.

computer networks, networks security, big data.

#### Teaching Interests.

Computer Programming, Computer Networks, Security.



## **Certifications and Trainings.**

1. Executive Groups for Talented Students.
2. Effective Strategic Leadership.
3. Effective Personal Leadership.
4. Effective Personal Productivity.
5. Theories of Inventive Problem Solving (TRIZ).

## **Social, Scientific and Professional Affiliation.**

1. -, Member, IEEE.



## Publications.

1. Rami J. Alzahrani, Ahmed Alzahrani, "A Novel Multi Algorithm Approach To Identify Network Anomalies In The Iot Using Fog Computing And A Model To Distinguish Between Iot And Non-Iot Devices", Journal Of Sensor And Actuator Networks, vol: 12, pp. 19, 2023.  
DOI: [10.3390/jsan12020019](https://doi.org/10.3390/jsan12020019)
2. Nala Alahmari, Sarah Alswedani, Ahmed Alzahrani, Iyad Katib, Aiiad Albeshri, Rashid Mehmood, "Musawah: A Data-Driven Ai Approach And Tool To Co-Create Healthcare Services With A Case Study On Cancer Disease In Saudi Arabia", Sustainability, vol: 14, pp. 3313, 2022.  
DOI: [10.3390/su14063313](https://doi.org/10.3390/su14063313)
3. Rami J. Alzahrani, Ahmed Alzahrani, "Security Analysis Of Ddos Attacks Using Machine Learning Algorithms In Networks Traffic", Electronics, vol: 10, pp. 2919, 2021.  
DOI: [10.3390/electronics10232919](https://doi.org/10.3390/electronics10232919)
4. Rami J. Alzahrani, Ahmed Alzahrani, "Survey Of Traffic Classification Solution In Iot Networks", International Journal Of Computer Applications, vol: 183, pp. 37-45, 2021.  
DOI: [10.5120/ijca2021921392](https://doi.org/10.5120/ijca2021921392)
5. Khlood Shinan, Khalid Alsubhi, Ahmed Alzahrani, Muhammad Usman Ashraf, "Machine Learning-Based Botnet Detection In Software-Defined Network: A Systematic Review", Symmetry, vol: 13, pp. 866, 2021.  
DOI: [10.3390/sym13050866](https://doi.org/10.3390/sym13050866)
6. Anwar Alghamdi, Ahmed Alzahrani, and Vijey Thayananthan, "Execution Time And Power Consumption Optimization In Fog Computing Environment", International Journal Of Computer Science And Network Security, 2021.
7. Ahmed Saeed Alzahrani, "An Efficient Ddos Attack Detecting System Using Levenberg-Marquardt Based Deep Artificial Neural Network Approach For Iot", International Journal Of Innovative Technology And Exploring Engineering, 2021.
8. Mohamed A. Mabrok, Hassan K. Mohamed, Abdel-Haleem Abdel-Aty, Ahmed S. Alzahrani, Ahmed Farouk, "Human Models In Human-In-The-Loop Control Systems", Journal Of Intelligent & Fuzzy Systems, vol: 38, pp. 2611-2622, 2020.  
DOI: [10.3233/JIFS-179548](https://doi.org/10.3233/JIFS-179548)
9. Ahmed S. Alzahrani, Reehan Ali Shah, Yuntao Qian, Munwar Ali, "A Novel Method For Feature Learning And Network Intrusion Classification", Alexandria Engineering Journal, vol: 59, pp. 1159-1169, 2020.  
DOI: [10.1016/j.aej.2020.01.021](https://doi.org/10.1016/j.aej.2020.01.021)
10. Ahmed Saeed Alzahrani, "An Optimized Approach-Based Machine Learning To Mitigate Ddos Attack In Cloud Computing", International Journal Of Engineering Research And Technology, vol: 13, pp. 1441, 2020.  
DOI: [10.37624/IJERT/13.6.2020.1441-1447](https://doi.org/10.37624/IJERT/13.6.2020.1441-1447)
11. Adnan Ahmad, Ahmed S. Alzahrani, Noman Ahmed, Touseef Ahsan, "A Delegation Model For Sdn-Driven Federated Cloud", Alexandria Engineering Journal, vol: 59, pp. 3653-3663, 2020.  
DOI: [10.1016/j.aej.2020.06.018](https://doi.org/10.1016/j.aej.2020.06.018)
12. Manazara Rehman, Hizbullah Khattak, Ahmed Saeed Alzahrani, Insaf Ullah, Muhammad Adnan, Syed Sajid Ullah, Noor Ul Amin, Saddam Hussain, Shah Jahan Khattak, Fawad Zaman, "A Lightweight Nature Heterogeneous Generalized Signcryption (Hgsc) Scheme For Named Data Networking-Enabled Internet Of Things", Wireless Communications And Mobile Computing, vol: 2020, pp. 1-20, 2020.  
DOI: [10.1155/2020/8857272](https://doi.org/10.1155/2020/8857272)
13. Bandar Alluhaybi, Mohamad Shady Alrahal, Ahmed Alzahrani, Vijey Thayananthan, "Dummy-Based Approach For Protecting Mobile Agents Against Malicious Destination Machines", Ieee Access, vol: 8, pp. 129320-129337, 2020.  
DOI: [10.1109/ACCESS.2020.3009245](https://doi.org/10.1109/ACCESS.2020.3009245)
14. AHMED ALZAHHRANI, VIJEY THAYANANTHAN, "Analysis Of Energy Efficiency For Mimo Wireless Network Using Manifold Techniques", Journal Of Information Science And Engineering, 2019.



## Publications.

15. Thaha Muhammed, Rashid Mehmood, Aiiad Albeshri, Ahmed Alzahrani, "Hcdsr: A Hierarchical Clustered Fault Tolerant Routing Technique For Iot-Based Smart Societies", pp. 609-628, 2019.  
DOI: [10.1007/978-3-030-13705-2\\_25](https://doi.org/10.1007/978-3-030-13705-2_25)
16. Bandar Alluhaybi, Mohamad Shady, Ahmed Alzhrani, Vijey Thayanathan, "A Survey: Agent-Based Software Technology Under The Eyes Of Cyber Security, Security Controls, Attacks And Challenges", International Journal Of Advanced Computer Science And Applications, vol: 10, 2019.  
DOI: [10.14569/IJACSA.2019.0100828](https://doi.org/10.14569/IJACSA.2019.0100828)
17. Muhammad Aqib, Rashid Mehmood, Ahmed Alzahrani, Iyad Katib, Aiiad Albeshri, Saleh M. Altowaijri, "Smarter Traffic Prediction Using Big Data, In-Memory Computing, Deep Learning And Gpus", Sensors, vol: 19, pp. 2206, 2019.  
DOI: [10.3390/s19092206](https://doi.org/10.3390/s19092206)
18. Muhammad Aqib, Rashid Mehmood, Ahmed Alzahrani, Iyad Katib, Aiiad Albeshri, Saleh M. Altowaijri, "Rapid Transit Systems: Smarter Urban Planning Using Big Data, In-Memory Computing, Deep Learning, And Gpus", Sustainability, vol: 11, pp. 2736, 2019.  
DOI: [10.3390/su11102736](https://doi.org/10.3390/su11102736)
19. Muhammad Aqib, Rashid Mehmood, Ahmed Alzahrani, Iyad Katib, and Aiiad Albeshri, "A Deep Learning Model To Predict Vehicles Occupancy On Freeways For Traffic Management", International Journal Of Computer Science And Network Security, 2018.
20. Yasir Arfat, Muhammad Aqib, Rashid Mehmood, Aiiad Albeshri, Iyad Katib, Nasser Albogami, Ahmed Alzahrani, "Enabling Smarter Societies Through Mobile Big Data Fogs And Clouds", Procedia Computer Science, vol: 109, pp. 1128-1133, 2017.  
DOI: [10.1016/j.procs.2017.05.439](https://doi.org/10.1016/j.procs.2017.05.439)
21. Ahmed Alzahrani, Vijey Thayanathan, Muhammad Shuaib, "Relevance Of Energy Efficiency Gain In Massive MIMO Wireless Network", International Journal Of Advanced Computer Science And Applications, vol: 8, 2017.  
DOI: [10.14569/IJACSA.2017.081246](https://doi.org/10.14569/IJACSA.2017.081246)
22. Ahmed Alzahrani, Muhammad Shuaib Qureshi, Vijey Thayanathan, "Rfid Of Next Generation Network For Enhancing Customer Relationship Management In Healthcare Industries", Technology And Health Care, pp. 1-14, 2017.  
DOI: [10.3233/THC-170934](https://doi.org/10.3233/THC-170934)
23. Vijey Thayanathan, Ahmed Alzahrani, Muhammad Shuaib Qureshi, "Partial Unit Memory Coding And Physical Layer Security", Journal Of Strategic And International Studies, Pp. 89-100, 2014.
24. Vijey Thayanathan, Ahmed Alzahrani, Muhammad Shuaib Qureshi, "Trellis Coding Based On RLL Codes For Rfid Reader-To-Tag Channel", Australian Journal Of Basic & Applied Sciences, Pp. 708-717, Vol. 7, No. 4, 2013. (Isi Indexed), vol: 7(4), pp. 708-717, 2013.
25. Vijey Thayanathan, Ahmed Alzahrani, M. Shuaib Quresi, "Analysis Of Digital Radio Systems Based On Quantum Signal Processing", Pensee Journal, Pp. 180-185, Vol. 75, No.10, 2013. (Sci-E, If: 0.063), vol: Vol. 75, No. 11, pp. 11-18, 2013.
26. Rizwan Qureshi, M.R.J, Ahmad Barnawi, Ahmed Alzahrani, Alosaimi, Shesha, Alsobhi, "Iphone Application For Ims Based Mass Mobile Examination System", , 2013.
27. Riaz Shaikh, Ahmed Alzahrani, A.S, "Trust Management Method For Vehicular Ad Hoc Networks", , 2013.
28. Riaz Ahmed Shaikh, Ahmed Saeed Alzahrani, "Intrusion-Aware Trust Model For Vehicular Ad Hoc Networks", Security And Communication Networks, vol: 7, pp. 1652-1669, 2013.  
DOI: [10.1002/sec.862](https://doi.org/10.1002/sec.862)
29. Furqan Alam, Iyad Katib, Ahmed Alzahrani, "New Networking Era: Software Defined Networking", , 2013.



## Publications.

30. Vijey Thayananthan, Ahmed Alzahrani, Iyad Katib, "Systems Engineering: Optimization On Stiefel Manifold For Mimo System", , 2013.
31. Vijey Thayananthan, Ahmed Alzahrani, Iyad Katib, "System Engineering: Optimization On Stiefel Manifold For Mimo System", , 2013.
32. Vijey Thayananthan, Ahmed Alzahrani, Muhammad Shuaib Qureshi, "Green & Sustain Energy Technolgy And Applications", Usa, 2013.
33. Vijey Thayananthan, Ahmed Alzahrani, Muhammad Shuaib Qureshi, "Quantum Cryptography And Efficient Search Of Security Keys For Rfid Networks"" , , vol: (ISSN: 0031-4773) Vol. 75, Issue. 11, 2013.
34. Vijey Thayananthan, Ahmed Alzahrani, "Stiefel Manifold And Tcq Based On Unit Memory Coding For Mimo System", , 2013.
35. Vijey Thayananthan, Ahmed Alzahrani, Muhammad Shuaib Qureshi, Muhammad S. Qureshi, "Risk Prediction System Based On Mimo System For Vehicle Users", , vol: Vol. 10, Issue. 4, 2013.
36. Ahmed Alzahrani, A., Alosaimi, A., Shesha, R, Alsobhi, U, Rizwan Qureshi, M.R.J, "Ip Multimedia Subsystem For Mass Examination System: A Case Study", , 2013.
37. V. Thayananthan, A. Alzahrani, Muhammad Shuaib Qureshi, "Analysis Of Digital Radio Systems Based On Quantum Signal Processing", Pensee Journal, Pp. 180-185, Vol. 75, No.10, 2013. (Sci-E, If: 0.063), 2013.
38. Ahmed Alzahrani, Muhammad Shuaib Qureshi, "Privacy Preserving Optimized Rules Mining From Decision Tables And Decision Trees", , 2012.
39. Vijey Thayananthan, Ahmad A Alzahrani, Ahmed Alzahrani, "Rfid-Based Body Sensors For E-Health Systems And Communications", , pp. 237-242, 2012.
40. Ahmed Alzahrani, Ahmad A Alzahrani, Vijey Thayananthan, "Analysis Of Key Management And Quantum Cryptography In Wireless Sensors Networks", , 2011.
41. Ahmed Alzahrani, "End-To-End Delay In Localized Qos Routing", Proceedings Of The 11th Ieee International Conference On Communication Systems, Iccs 2008, pp. 1700-1706, 2008.
42. Ahmed Alzahrani, "Path Selection Method For Localized Qos Routing", Proceedings Of The New Technologies, Mobility And Security, Ntms 08, pp. 1-5, 2008.
43. Ahmed Alzahrani, "Localized Quality-Of-Service Routing Using Delay", Proceedings Of The 4th Ieee/Ifip International Conference On Internet, Ici 2008, pp. 1-6, 2008.
44. Ahmed Alzahrani, "Residual Bandwidth As Localized Qos Routing Metric", Proceedings Of The 16th International Software, Telecommunications And Computer Networks, Softcom, pp. 125-129, 2008.